

Docket No. DP-309395

MAGNETORHEOLOGICAL-FLUID HYDRAULIC MOUNT

ABSTRACT OF THE DISCLOSURE

5 A magnetorheological-fluid hydraulic mount includes a
hydraulic-mount partition plate assembly, a hydraulic-mount decoupler, an
electric coil, and a flexible membrane assembly. The partition plate assembly
has first and second sides, has a non-magnetorheological-fluid first orifice, and
has a magnetorheological-fluid second orifice. The first orifice has a first
10 terminus positioned at the first side and a second terminus positioned at the
second side. The second orifice has a first end positioned at the first side and
has a second end positioned at the second side. The hydraulic-mount decoupler
is operatively connected to the first orifice. The electric coil is disposed to
magnetically influence the second orifice. The flexible membrane assembly has
15 a first membrane portion fluidly-isolating, on the first side of the partition plate
assembly, the first end from the first terminus and has a second membrane
portion fluidly-isolating, on the second side of the partition plate assembly, the
second end from the second terminus.